



**Ed Brunson, Deputy Director
Joint Fire Science Program**

NASA Wildland Fire Applications 2017 Team Meeting
March 1, 2017

“The role that JFSP plays in the fire science arena is much larger than its direct funding of projects.” JFSP works to improve the overall effectiveness of federal wildland fire management by providing scientific information and tools”

~ JFSP Program Review 2013



Joint Fire Science Program Background



Program Staff
based at NIFC
in Boise, Idaho

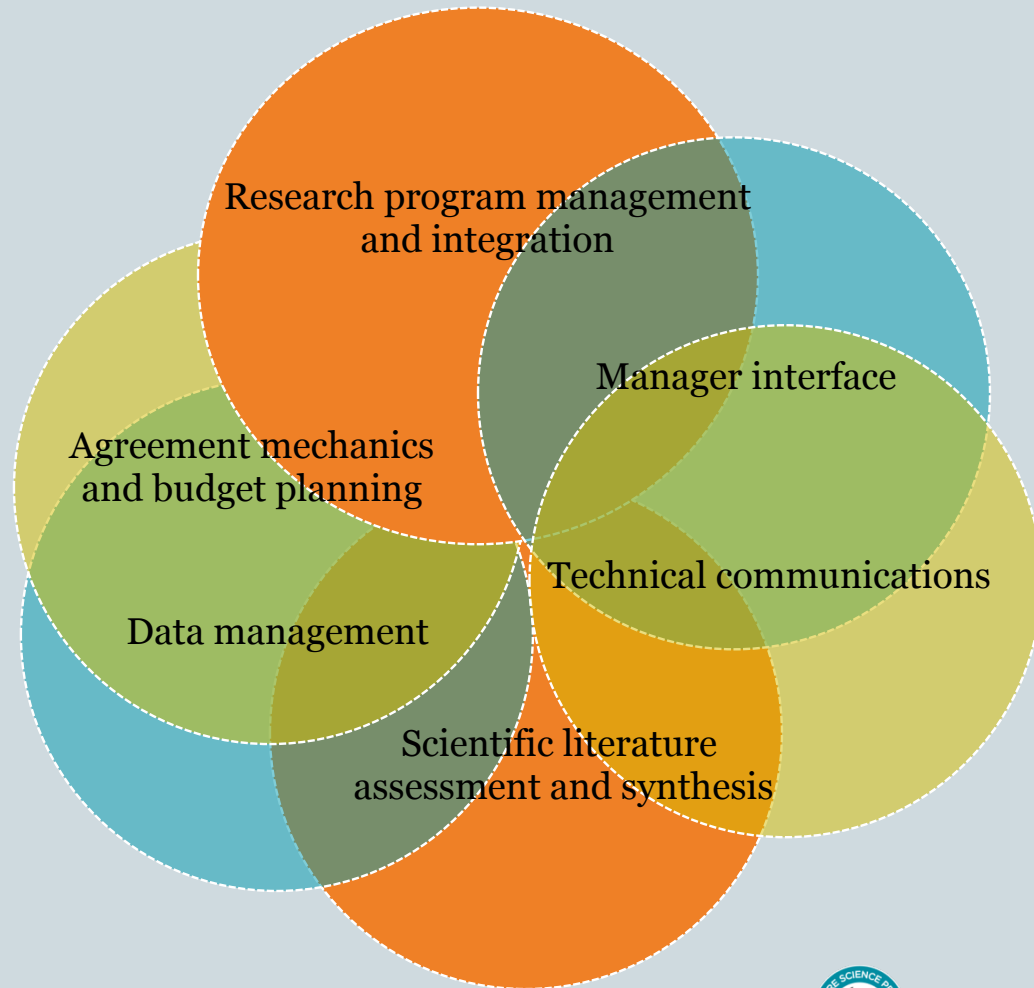


FIRESCIENCE.GOV
Research Supporting Sound Decisions



Function as a Team

**Our team
reflects a
purposeful
assembly of
skill sets to
meet program
needs in a
balanced
manner**



Current Research & Science Delivery

Research Areas

Long Term – Lines of Work

Short Term – Research Focus Areas

Emerging Management Needs

Science Delivery / Application

Fire Science Exchange Network



FIRESCIENCE.GOV
Research Supporting Sound Decisions



2017 Funding Opportunities

Closed: November 17, 2016

Six Task Statements, 104 total proposals received

The primary funding opportunity notice (FA-FON0017-0001)
includes the following 6 Task statements:

1. Landscape fuel treatment strategies and wildfire management
2. Effects of changing wildfire management strategies
3. Post-fire recovery
4. Fire effects on herbaceous and shrub species
5. Validating mesoscale, atmospheric boundary prediction models and tools
6. Factors that affect the co-management of wildland fire risk

http://www.firescience.gov/JFSP_funding_announcements.cfm



FIRESCIENCE.GOV
Research Supporting Sound Decisions



2017 Funding Opportunity

The Graduate Research Innovation (GRIN) Award funding opportunity notice (FA-FON0017-0002)

23 total proposals received

Task Statement topics:

- Fire behavior
- Fire effects
- Fuels treatments effectiveness
- Post-fire recovery
- Social issues and fire



FIRESCIENCE.GOV
Research Supporting Sound Decisions



Implementation of Science Delivery Fire Science Exchange Network FSEN

- 15 regional “exchanges” form a collaborative network



Key characteristics

Boundary spanning partnerships
End-user and science driven
Active engagement



FIRESCIENCE.GOV
Research Supporting Sound Decisions



Fire Science Exchange Network “Since 2009”

JFSP

Identifies Research Needs
Fund Studies
Exchange & Apply Results



Goal – to Accelerate:

Awareness

Understanding

Adoption of wildland fire science information



FIRESCIENCE.GOV
Research Supporting Sound Decisions

Science Delivery

Recent Accomplishments

Learning in 2015

9,000+ stakeholders

(40% increase from 2014)

3,907 participants

(triple from 2014)

207 field consultations

(double from 2014)

Leadership Briefings - Inform decision-makers/obtain feedback

87 leadership briefings

710 decision-makers

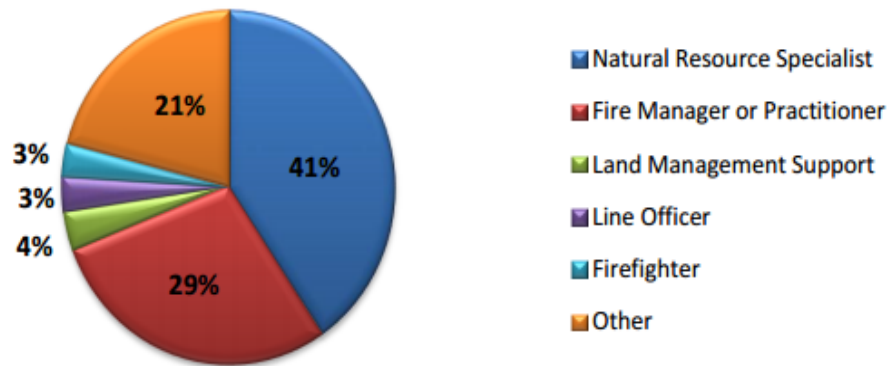
(more than double the numbers from 2014)



FIRESCIENCE.GOV
Research Supporting Sound Decisions

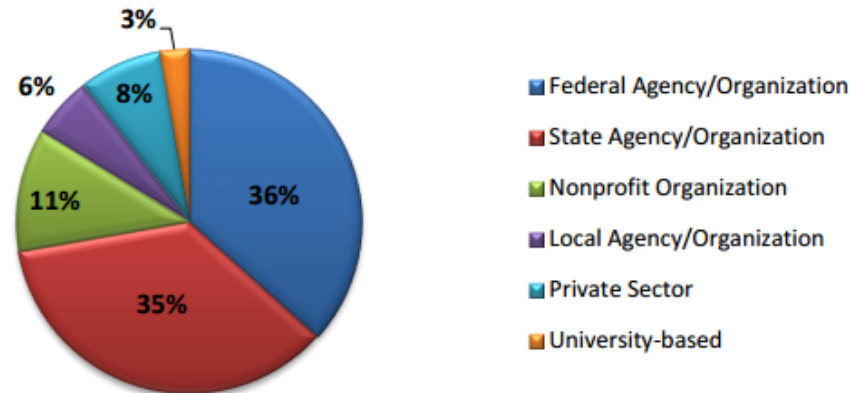


Science Delivery Participation



Primary Role of Consumers

Affiliation of Consumers



from 2015 Annual Evaluation
Demonstration of Impact



FIRESCIENCE.GOV
Research Supporting Sound Decisions



BB.



FIRESCIENCE.GOV
Research Supporting Sound Decisions



JFSP - Future

- Fire and Smoke Model Evaluation Experiment (FASMEE)
- Science and wildland fire policy
- Scoping future long term research topics
 - Roundtables



FASMEE

Fire and Smoke Model Evaluation Experiment

- To provide innovative and efficient measurement techniques to collect critical observational data necessary to evaluate and advance operationally used fire and smoke modeling systems and their underlying scientific models.



Science and wildland fire policy

2013 JFSP Program Review-

- Recommendation: “JFSP should consider creating an analogous structure to the Regional [Exchanges] targeting policymakers in Washington, DC.”



JFSP and US Institute Partnership

- JFSP response to 2013 recommendation
 -JFSP engaged the U.S. Institute of Environmental Conflict Resolution (U.S. Institute) to provide independent third party neutral assistance in **broadly assessing the needs and interests of the fire science and policy community**, and **convening a work group of experts from this community with a diverse range of perspectives to suggest how best to achieve science-policy integration.**

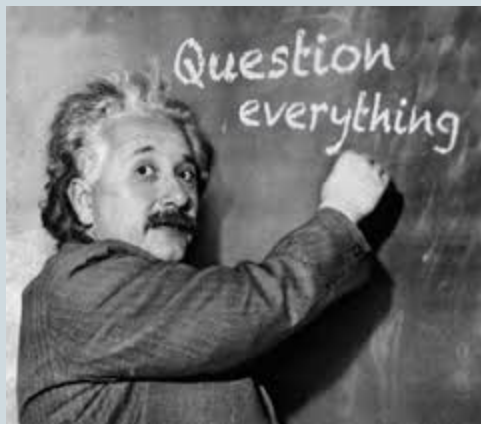


Scoping future long term research topics

- Initial scoping 2017
- Roundtable(s) in 2018- potential topics
 - Safety (community and firefighter)
 - Risk analysis
 - TBD



Questions?



FIRESCIENCE.GOV
Research Supporting Sound Decisions

